

Abstract

A method and a circuit arrangement for operating stepper motors or other appropriately dimensioned synchronous motors is disclosed in which between a first operational mode for normal motor operation and a second operational mode for detecting an operating state of the motor like for example its load can be switched. The method and the circuit arrangement is especially provided for determining a reference position of the motor without sensors by driving the motor against a mechanical stop wherein an increase of the load which is caused by this, is detected as a change of the operating state (Fig. 1).